

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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|--|---|--|
| Applicant's or agent's file reference<br>D-3132PCT   | <b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) |  |
| International application No.<br>PCT/US04/09746  | International filing date (day/month/year)<br>31 March 2004 (31.03.2004)  | Priority date (day/month/year)<br>31 March 2003 (31.03.2003) |
| International Patent Classification (IPC) or national classification and IPC<br>IPC(7): B65D 37/00, 47/18, 25/40; A61M 35/00 and US Cl.: 222-212, 213, 422, 490-496; 604/294, 298  |   |  |
| Applicant<br>MANESIS, NICK, J.   |   |  |
| <p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of <u>    </u> sheets.</p>  |   |  |
| <p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of report with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p> |   |  |
| Date of submission of the demand<br>18 January 2005 (18.01.2005)   | Date of completion of this report<br>05 August 2005 (05.08.2005)  |  |
| Name and mailing address of the IPEA/US<br>Mail Stop PCT, Attn: IPEA/ US<br>Commissioner for Patents<br>P.O. Box 1450<br>Alexandria, Virginia 22313-1450<br>Facsimile No. (703) 305-3230   | Authorized officer<br>Michael Y. Mar <i>M. Y. Mar</i><br>Telephone No. (703) 308-0861   |  |

Form PCT/IPEA/409 (cover sheet)(July 1998)

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US04/09746

**I. Basis of the report**

## 1. With regard to the elements of the international application:\*

- ☒ the international application as originally filed.
- ☒ the description:  
pages 1-27 as originally filed  
pages NONE, filed with the demand  
pages NONE, filed with the letter of \_\_\_\_\_.
- ☒ the claims:  
pages 28-49, as originally filed  
pages NONE, as amended (together with any statement) under Article 19  
pages NONE, filed with the demand  
pages NONE, filed with the letter of \_\_\_\_\_.
- ☒ the drawings:  
pages 1-6, as originally filed  
pages NONE, filed with the demand  
pages NONE, filed with the letter of \_\_\_\_\_.
- ☒ the sequence listing part of the description:  
pages 1-50, as originally filed  
pages NONE, filed with the demand  
pages NONE, filed with the letter of \_\_\_\_\_.

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☒ contained in the international application in printed form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages NONE
- ☐ the claims, Nos. NONE
- ☐ the drawings, sheets/fig NONE

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.  
PCT/US04/09746**V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. STATEMENT**

|                               |   |     |
|-------------------------------|---|-----|
| Novelty (N)                   | Claims <u>Please See Continuation Sheet</u> | YES |
|                               | Claims <u>Please See Continuation Sheet</u> | NO  |
| Inventive Step (IS)           | Claims <u>Please See Continuation Sheet</u> | YES |
|                               | Claims <u>Please See Continuation Sheet</u> | NO  |
| Industrial Applicability (IA) | Claims <u>Please See Continuation Sheet</u> | YES |
|                               | Claims <u>Please See Continuation Sheet</u> | NO  |

**2. CITATIONS AND EXPLANATIONS**

Claims 1-7, 9, 10, 12, 16, 28-35, 44-46, 59-65, 67, 69-71, 73-76 and 89-92 lack novelty under PCT Article 33(2) as being anticipated by US 5,154,325 to Ryder et al.

Ryder shows a delivering nozzle with anti-microbial features as seen in Figs. 1-5, a dispensing tip 29, a vessel with resilient wall 14, vent holes 44 and 40, a filtration element 24 with hydrophobic and anti-microbial material, a cap 36 and retainer 18.

Claims 8, 11, 13-15, 17-27, 36-43, 47-58, 66, 68, 72, 77-88 and 93-105 lack an inventive step under PCT Article 33(3) as being obvious over US 5,154,325 to Ryder et al. Ryder is silent about some of the specific dimensions and properties used to manufacture the dispensing nozzle and the method of using the dispenser. It would have been obvious to a person with ordinary skill in the art at the time the invention was made to use the dispenser of Ryder as a drop wise dispenser and make the dispenser using dimensions and material suitable for the planned application of the dispenser since the dimensions and materials are determined by factors such as application environment and viscosity of product to be dispensed that are only matter of design choice.

Claims 1-105 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

----- NEW CITATIONS -----

NONE

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.  
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**Supplemental Box**

(To be used when the space in any of the preceding boxes is not sufficient)

**V.1. Reasoned Statements:**

The opinion as to Novelty was positive (Yes) with respect to claims 8, 11, 13-15, 17-27, 36-43, 47-58, 66, 68, 72, 77-88 and 93-105  
The opinion as to Novelty was negative (No) with respect to claims 1-7, 9, 10, 12, 16, 28-35, 44-46, 59-65, 67, 69-71, 73-76 and 89-92  
The opinion as to Inventive Step was positive (Yes) with respect to claims NONE  
The opinion as to Inventive Step was negative (NO) with respect to claims 1-105  
The opinion as to Industrial Applicability was positive (YES) with respect to claims 1-105  
The opinion as to Industrial Applicability was negative (NO) with respect to claims NONE